10/586026

APRICE STATE DIE 2006 SEQUENCE LISTING <110> Wu, Wenping Schnorr, Kirk Matthew <120> Fungal cell wall degrading enzyme <130> 10515.204-US <160> 4 <170> PatentIn version 3.3 <210> 1 <211> 945 <212> DNA <213> Trametes cinnabarina <400> 1 60 ggccattacg gccgggggtg cacagacgtc ggtgtccgag cacatcctat ctcactcaag cttagaccac cttgggctac gacatgaagc tctctaccac agctctgctt gctattgcgg 120 tggcagtggc ctctgcttct cccactcccg agaagcgtgc caaccccaag ggcattgacg 180 240 tctcggctta ccaacccaac atcaactgga gcaccgtcaa agccaacggg atctcgttcg 300 catatatcaa ggcaaccgag ggtaccacgt ataccaaccc agacttctcg agccagtata 360 caggegegae taatgetgga eteatteggg geggetaeea ettegeeeat eeegaeteet cttcaggcgc gactcaagcc aagtacttcc tggcccacgg aggtggatgg acaagcgacg 420 gaatcacact tccaggcgct ctcgacatcg agtataaccc tagcggggcg gagtgttatg 480 540 gcttaagcgc gtcggcgatg gtttcgtgga tcaaagactt ctccaatacc taccactcgt 600 cgaccggagt ttaccctgtt atttacacca ccacggactg gtggacgaca tgcacgggca 660 acagtgccgc gtttgcttcg acgaaccctc tatggattgc ccgctatgca tcaagcatcg 720 gcaccctgcc cgcaggttgg agttatacaa cgttctggca atatgctgac tcgggcccga 780 accetggtga ccaggatgag ttcaatgget cgatggcagg actgaagcag ettgegeteg 840 ggtgaagtgg gatgtgaggt cgccggagaa gaagcagagt ccaccggcag cagtatccgt 900 cgtgtacatc atggtgtcat accatccgaa gacgatactc gagtcgtacg gacaattcgc 945 agcttcgtaa ctttgaaaaa aaaaaaaaaa aaaaaaaa aaaaa <210> 2 <211> 233

<212>

<213>

PRT

Trametes cinnabarina

<400> 2

Met Lys Leu Ser Thr Thr Ala Leu Leu Ala Ile Ala Val Ala Val Ala 1 5 10 15

Ser Ala Ser Pro Thr Pro Glu Lys Arg Ala Asn Pro Lys Gly Ile Asp 20 25 30

Val Ser Ala Tyr Gln Pro Asn Ile Asn Trp Ser Thr Val Lys Ala Asn 35 40 45

Gly Ile Ser Phe Ala Tyr Ile Lys Ala Thr Glu Gly Thr Thr Tyr Thr 50 55 60

Asn Pro Asp Phe Ser Ser Gln Tyr Thr Gly Ala Thr Asn Ala Gly Leu 70 75 80

Ile Arg Gly Gly Tyr His Phe Ala His Pro Asp Ser Ser Ser Gly Ala 85 90 95

Thr Gln Ala Lys Tyr Phe Leu Ala His Gly Gly Gly Trp Thr Ser Asp 100 105 110

Gly Ile Thr Leu Pro Gly Ala Leu Asp Ile Glu Tyr Asn Pro Ser Gly 115 120 125

Ala Glu Cys Tyr Gly Leu Ser Ala Ser Ala Met Val Ser Trp Ile Lys 130 135 140

Asp Phe Ser Asn Thr Tyr His Ser Ser Thr Gly Val Tyr Pro Val Ile 145 150 150

Tyr Thr Thr Asp Trp Trp Thr Thr Cys Thr Gly Asn Ser Ala Ala 165 170 175

Phe Ala Ser Thr Asn Pro Leu Trp Ile Ala Arg Tyr Ala Ser Ser Ile 180 185 190

Gly Thr Leu Pro Ala Gly Trp Ser Tyr Thr Thr Phe Trp Gln Tyr Ala 195 200 205

Asp Ser Gly Pro Asn Pro Gly Asp Gln Asp Glu Phe Asn Gly Ser Met 210 225 220

```
Ala Gly Leu Lys Gln Leu Ala Leu Gly
225
                   230
<210> 3
<211> 34
<212> DNA
<213> Artificial
<220>
<223> Upstream PCR primer for Seq ID no 1 having an EcoR1 site added
<400> 3
gcggaattca acatgaagct ctctaccaca gctc
                                                                    34
<210> 4
<211> 36
<212> DNA
<213> Artificial
<220>
<223> Downsteam PCR primer for Seq ID no 1 having a Not1 site added
<400> 4
                                                                    36
atatgcggcc gcaaagttac gaagctgcga attgtc
```